



Instrumentation – Barcelona, Spain

Liquid Chromatography

Waters HPLC	4
Waters HUPLC with PDA Detector	1
Waters UPLC	1
Agilent HPLC	3
HPLC Detectors	
Waters Ultraviolet (UV)	2
Waters Photodiode Array (PDA)	2
Agilent Photodiode Array (PDA)	3
Waters Refractive Index (RI)	1
Agilent Refractive Index (RI)	1
Agilent Evaporative Light Scattering Detector (ELSD)	1
Waters Fluorescence (FL)	1
Dionex Conductivity Detector (Ion Chromatography)	3
Dionex Electrochemical Detector (Ion Chromatography)	3
Waters Electrochemical Detector	1
Dionex Pulsed Amperometric Detector	1
Post Column Derivation Module	1
Waters GPC Empower Software	1

Gas Chromatography

Agilent/Varian/Konik GC	8
GC Detectors	
Flame Ionization Detector (FID)	9
Electron Capture Detector (ECD)	4
Thermal Conductivity Detector (TCD)	3
Flame Photometric Detector (PFPD)	1
Nitrogen-Phosphorus Detector (NPD)	1
Liquid Autosamplers	4
Headspace Autosamplers	2

Mass Spectrometry

Agilent GC/MS Triple Quad 7000A with Liquid Autosampler	1
Agilent GC/MS Triple Quad 8890 with Head-space	1
Agilent GC/MS Triple Quad 8890 with Combipal	1

Elemental Analysis

Perkin Elmer Graphite Furnace Atomic Absorption Spectrophotometer	2
Perkin Elmer Flame (Acetylene) Atomic Absorption Spectrophotometer	1
Perkin Elmer Flame (Acetylene-Nitrous Oxide) Atomic Absorption Spectrometer	1
Perkin Elmer Hydride Generation Atomic Absorption Spectrometer	1
Perkin Elmer Inductively Coupled Plasma (ICP-OES) Spectrophotometers	2
Perkin Elmer Ultrasonic Nebulizer ICP Autosamplers	1
Perkin Elmer Cold Vapour and Hydride (Hg) Atomic Absorption Spectrophotometer	1
Milestone Ethos Microwaves	2



Dissolution

PharmaTest Dissolution Bath	4
Automatic UV Detector	2
Automatic Fraction Collector	1
PharmaTest Disaggregation Bath	1

Spectrophotometry

Thermo UV/VIS Spectrophotometer Nicolet Evolution 300	1
Perkin Elmer Fluorescence Spectrophotometer	1
Jasco IR Spectrophotometer	1
Agilent UV/Vis Spectrophotometer 8453	2

Biochemistry

Bio Tek Micro Plate Reader (ELISA)	1
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Cell Culture

Microtome	1
Tissue Embedding System	1

Microbiology

Microbiology Laboratory with Controlled Access (Clean Room Class D)	1
Sterilization and Depyrogenation Devices (Autoclaves and Oven)	3
Biohazard Hoods	2
Microbiology Cabinets	6
Millipore Filtration Systems	6
Getinge La Calhene Isolator 4 Gloves (Sterility Test)	1
Steritest Equinox Pump (Isolator Filtration System)	2
Millipore Control Air Sampler	1
Incubators	14
Refrigerators/Freezers/UltraFreezers	13
Water Baths	8
Ultrasonic Baths	4
Microscopes	2
Colony Counter Digitals S	3
Biotek Synergy Mx with Spectrophotometer and Luminometer Module	1
Biotek Kinetic System for Performing Kinetic Chromogenic Endotoxin Tests	2
Novasina Water Activity	2
Miele Washer Disinfectors	3

Stability

CTS/Dycometal Climatic Chambers	9
25°C±2°C/60%HR ±5%HR	40 m ³
25°C±2°C/40%HR ±5%HR	2,6 m ³
30°C±2°C/65%HR ±5%HR	8 m ³
30°C±2°C/75%HR ±5%HR	1,1 m ³
40°C±2°C/75%HR ±5%HR	3,8 m ³
5°C±3°C	11,3 m ³
Custom Conditions	1,3 m ³



Thermal Analysis

Buchi Melting and Boiling Point Analyzer	1
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Facility Monitoring (Water, Gas, Clean Rooms)

Total Organic Carbon Analyzer (TOC)	2
Air Samplers	5
Conductivity Meters	2
pH Meters	8

Miscellaneous

Viscosimeters	
Brookfield Viscosimeter LU/ULA	1
Brookfield Viscosimeter HB	1
Brookfield Viscosimeter RVDV-II	1
Brookfield Recirculation Bath	1
Cole-Palmer Masterflex® Peristaltic Pumps	2
Peristaltic Pumps	2
Rudolph Polarimeter: 589nm-546nm-633nm-426nm-405nm-365nm	1
Fiske Osmometer	1
Advanced Technologies Osmometer Osmotech	1
HIAC/Beckman Liquid Particle Counter	1
PharmaTest Durometer	1
Bausch & Lomb Refractometer	1
Methrom Volumetric Automatic System	1
Methrom Volumetric Karl Fischer (KF) System	2
Methrom Coulometric Karl Fischer (KF) System	1
Methrom Electronic Titrations System	1
Vaccum Oven	1
Muffle Furnace	1
Fluorescence Visualizer for Thin-Layer Chromatography (TLC)	1
Microbalance	1
Analytical Balances	7
Scaltec Moisture Balance (IR Balance)	1
Friabilimeter	1
Sieving Machine	1
Buchi Distillation Unit K-355 (Kjedahl and Devarda Method)	1
Buchi Sample Speed Digester	1
Hazardous Material Cabinet	4

Metrology

Labguard 3D (Facility Monitoring System - Temperature and Humidity)	1
Empower 3 Chromatography Data Software	1
Full-Time Metrologist On Site	1